## What is claimed is:

- 1. A media-distribution-resource management apparatus which is a resource-shared media-distribution-resource management apparatus using a network, comprising:
- a resource-utilization-information management
  unit managing shared-resource information about both
  available network resources and available media
  10 -distribution-system resources;
  - a shared-resource management unit distributing or re-distributing the shared resources based on a resource utilization request from each content distributor;
- a distribution management unit which is provided

  in each media distribution server and which performs
  both reservation management and distribution
  management of media distribution in each of the media
  distribution servers within a scope of a utilization
  right distributed or re-distributed by the
  shared-resource management unit;
  - a distributor management unit managing information about a media distributor that wants to use the shared resources; and
- a viewer management unit managing information  $\ensuremath{\mathbf{25}}$  about a viewer.

- 2. The media-distribution-resource management apparatus according to claim 1, wherein
- said resource-utilization-information
- 5 management unit, comprising:
  - a server-resource management unit managing resource information about a media-distribution server; and
- a network-resource management unit managing 10 information about network resources for media distribution.
  - 3. The media-distribution-resource management apparatus according to claim 1 or 2, wherein
- 15 said shared-resource management unit, comprising:
  - a resource-utilization-information extraction unit extracting available resource information from said resource-utilization -information management
- 20 unit; and
  - a shared-resource-availability display unit displaying information about available shared resources for a media distributor;
- a resource-utilization-information input unit
  25 the media distributor inputting a resource utilization

## request;

a shared-resource distribution unit distributing a utilization right of the shared resource in a specific time period to said distribution management unit installed in each of the media distributors based on information that is obtained in each time zone by the resource-utilization-information extraction unit and resource-utilization-information input unit;

a shared-resource-utilization amount extraction
10 unit extracting a utilization situation of the shared
resource in a specific time period; and

a shared-resource re-distribution unit redistributing a utilization right of an unused one of the shared resources to said distribution management unit based on both the utilization situation and distribution request in a specific time period extracted by said distribution management unit.

4. The media-distribution-resource management
apparatus according to one of claims 1 through 3, wherein
said distribution management unit, comprising:
an available reservation-candidate display unit
displaying available content candidates to be reserved
within a scope of a utilization right distributed by
said shared-resource management unit;

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- a distribution-reservation input unit making a viewer select at least one content to be distributed out of the displayed candidates;
- a distribution-reservation management unit reserving distribution for a viewer based on the selection made by the viewer from the displayed candidates:
- a direct viewing reception unit making a viewer candidate without a reservation within a media 10 distribution time;
  - a shared-resource confirmation unit making an inquiry for said shared-resource management unit about whether an unused one of the shared resources is available, based on the selection made by the viewer from the displayed candidates;
    - a direct-viewing permitting unit permitting viewing within the media distribution time based on the utilization right re-distributed by said shared-resource management unit; and
- a distribution-instructing unit instructing the media distribution server to perform media distribution to a viewer that is permitted to receive direct distribution out of both viewers with the reservation of media distribution and viewer candidates without reservations.

- 5. The media-distribution-resource management apparatus according to one of claims 1 through 4, wherein said distributor management unit, comprising:
- a distributor-information input unit making a media distributor that wants to use the shared resource input information about the distributor itself; and a distributor authentication unit authenticating the media distributor based on the shared resource input information.
  - 6. The media-distribution-resource management apparatus according to one of claims 1 through 5, wherein said viewer management unit, comprising:
- 15 a viewer-information input unit inputting information about a viewer candidate; and
  - a viewer authentication unit authenticating the viewer candidate based on the input information.
- 20 7. A computer-readable storage medium which records a program for enabling a computer to perform a function when the program is read by the computer, the function comprising:
- a resource-utilization-information management 25 function to manage shared-resource information about

both an available network resource and an available media-distribution-system resource:

- a shared-resource management function to distribute or re-distribute the shared resource based 5 on a resource-utilization request from each content distributor:
- a distribution management function which is provided in each media distribution server and which performs both reservation management and distribution 10 management of media distribution for each of the media distribution servers within a scope of a resource-utilization right distributed or re-distributed by the shared-resource management function;
- 15 a distributor management function to manage information about media distributors that want to use the shared resource;
  - a viewer management function to manage information about viewers.

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- 8. A media-distribution-resource management apparatus which is a resource-shared media-distribution-resource management apparatus using a network, comprising:
- 25 resource-utilization-information management

means for managing shared-resource information about both available network resources and available media-distribution-system resources;

shared-resource management means for distributing or re-distributing the shared resources based on a resource utilization request from each content distributor;

distribution management means which is provided for each media distribution server and which performs 
10 both reservation management and distribution management of media distribution for each of the media distribution servers within a scope of a utilization right distributed or re-distributed by the shared-resource management means;

15 distributor management means for managing information about a media distributor that wants to use the shared resources; and

viewer management means managing information about viewers.

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- 9. A carrier signal which carries to a computer a program for enabling the computer to perform a function when the program is read by the computer, the function comprising:
- 25 a resource-utilization-information management

function to manage shared-resource information about both an available network resource and an available media-distribution-system resource;

- a shared-resource management function to 5 distribute or re-distribute the shared resource based on a resource-utilization request from each content distributor;
- a distribution management function which is provided in each media distribution server and which 10 performs both reservation management and distribution management of media distribution for each of the media distribution servers within a scope of a resource-utilization right distributed or re-distributed by the shared-resource management 15 function;
  - a distributor management function to manage information about media distributors that want to use the shared resource:
- a viewer management function to manage 20 information about viewers.